# START

# TEST REQUEST FORM

Sample/Specimen No. 6-126	Cost Code/Work Order No. ED 332
Requested By: Org. 81232	Person Lindberg Date 3-12-90
No. of Test Requested Samples	
Sieve ANAL 1 Hydro 1	ETAL - 07
NA NA	ETAL - 10  NA
Remarks Field Sample 1100-3-H-5	Received By: <u>R6 Alexander</u> Date <u>3-9-90</u> Approved By: <u>R6 Alexander</u> Date <u>3-9-90</u>

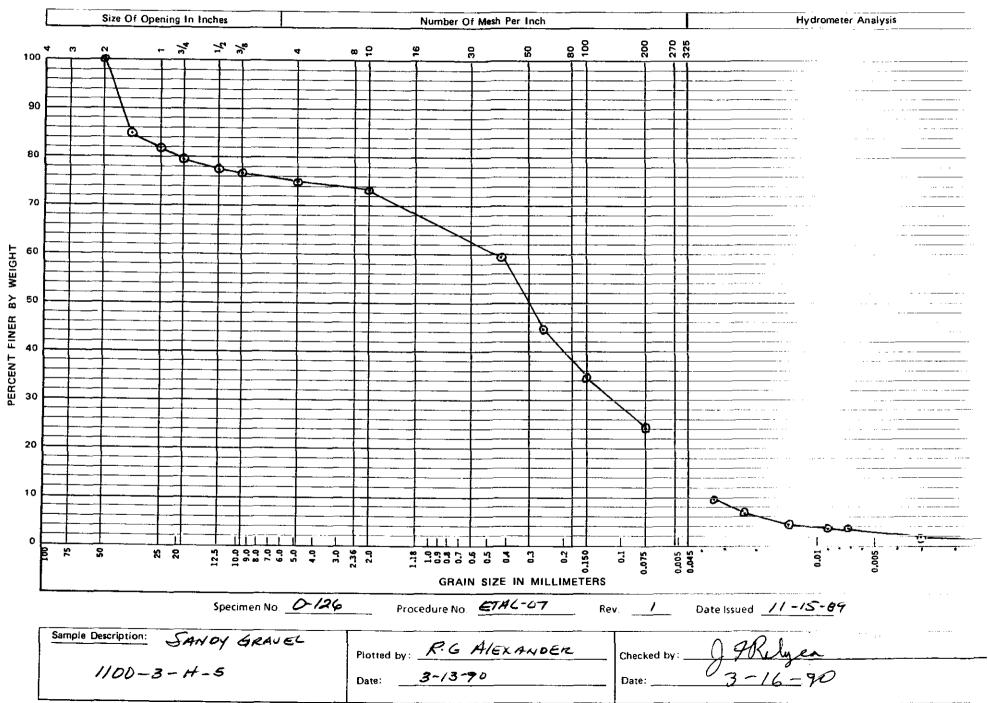


			SIEVE ANAI		A SHEET		
			126		Page/		
	Te	sted By_/	R.G ALEXANI	ER I	Date <u>3-13-98</u>	2	
	Pr	ocedure_	ETAL 07 Re	<u></u>	Date Issued_/	7-15-89	
		Balance	NT ITEM CAL	33 <i>0</i> 4	3-25	-90	
		Thermome		0007 N/A	8-16 N/r		
Samp	le Desc	ription	SANDY GRAVE	<u></u>	— Sieve Ti	me <u>/0</u> (r	nin)
		в ру	splitting		stockr	oile	
BEF	(B) FORE TE	EST WT	AFTER TE	(A) ST WT	$\frac{B-A}{B} \times 100 = -$	% LOSS	
Sieve ID Number	Sieve Size	Sample Weight	Cumulative Wt. Retained (g)	% Retained	Cumulative %	Cumulative 7	% Pass
NA	2	4061.23	Ø	Ø	Ø	100	100
	11/2		614.34	15.1	15.1	84.9	84.9
	1		735.30	18.1	18.1	81.9	81.9
	3/4		828.76	20.4	20.4	79.6	79.6
	1/2		909.30	22.4	22.4	77.6	77.6
	3/8		947.29	23.3	23.3	76.7	76.7
	#4		1030.47	25.4	25.4	74.6	74.6
	#10	<b>T</b>	1086.38	26.8	24.8	73.2	7.3.Z
	#40	80.06	14.96	18.7	18.7	81.3	59.5
	#60		31.53	39.4	39.4	60.6	44.4
	#100		42.61	53.2	53,2	46.8	34-6
Y	# 200	1	53.5g	66.9	469	33.1	24.2
	Finess M	fodules (FM	() <u>N/A</u> (	See ASTM C 1	36-83, Section		
MATERI	als fin	IER THAN	NO. 200 SIE	ve by wase			
			sing a 200 Sieve		Remarl	ks U <i>Field Sam</i>	IPLE
_	•	ight of San	iple r Washing/Sleve	80.06 g 53.58			
E-bry we			<del></del>		Pan	7	
OF	ALL DATA ARE ACCURATELY AND COMPLETELY RECORDED. THE TEST  OPERATOR WAS TRAINED AND USED CALIBRATED INSTRUMENTS  Checked By There Date 3-16-90						

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#### **GRAIN SIZE ANALYSIS PLOT**



### SOIL MOISTURE DATA SHEET

PROCEDURE NO. ETAL 14 REV. NO. O

THERMOMETER NO. 0007 CALIBRATION DUE DATE 8-16-90

SAMPLE NO.	WET WT. + CAN	DRY WT. + CAN	CAN WI.	WET WT. SOIL	DRY WT. SOIL	% WATER
0-126	4338.41	4/79,10	117.87	4220.54	4061,23	3.92
$\overline{}$						
			<u> </u>			
<del></del> -					/	
<del> </del>			<del></del>		<u></u>	
			$\leftarrow$			<del></del>
<u> </u>						
		/				
<del></del>						
				<del></del>		

ALL REQUIRED DATA ARE ACCURATELY AND COMPLETELY RECORDED. THE TEST OPERATOR WAS APPROPRIATELY TRAINED AND TEST PROCEDURES FOLLOWED TO PRODUCE THE ABOVE DATA

TEST OPERATOR:

R.G. ALEXANDER

DATE 3-18-90

#### **SPECIFIC GRAVITY OF SOILS DATA SHEET**

Specimen/Sample No. 0 - 12 6		Page 1 of 1	
Test Operator <u>R.G. AlE</u>	XANDER	3-/3-90	
EQUIPMENT ITEM	<u>_NO.</u>	DATE DUE	
Balance	3304	3-2 <i>5-9</i> 0	
Oven Thermometer	0607	8-16-90	
Thermometer	0002	2-9-91	
Pycnometer	2554	N/A	

Wetting Agent <u>"O" WATER</u>

	DETERMINATION NO.	1	2	3
	Drying Container No.	N/A	NA	NA
	Wt. Container + Oven Dry Soil, ± 0.01g	N/A		
_	Wt. Container, ± 0.01g	N/A :	·	
w,	Wt. Oven Dry Soil, g	40.00		
	Pycnometer No.	2554		
, <u></u>	Wt. Pycnometer, g	/35 .72		·
Wa	Wt. Pycnometer + Wetting Agent, g	387.10	· <b>-</b>	·
W <sub>b</sub>	Wt. Pycnometer + Wetting Agent + Soil, g	4/2 .33		
	Temperature, T <sub>x</sub> at W <sub>b</sub> , °C	23.4 C		
G <sub>w</sub>	Specific Gravity of Wetting Agent at T <sub>x</sub>	1.00		
G,	Specific Gravity of Soil at T <sub>x</sub>	2.71		
G,	Specific Gravity of Soil at 20°C	2.20	1	

$$G_t = \frac{G_{w^*} Y_{w^*} W_o}{W_o + (W_o - W_b)}$$

yw = Unit Weight Of Water (g/cc)

\*G, = K.G,

Average Specific Gravity At 20°c

2.20

K values found in ASTM D854-58, Table 1

\*NOTE G<sub>s</sub> = G<sub>t</sub> When Test Run at 20 °c

ALL REQUIRED DATA ARE ACCURATELY AND COMPLETELY RECORDED. THE TEST OPERATOR WAS APPROPRIATELY TRAINED AND UTILIZED CALIBRATED TEST INSTRUMENTS AS INDICATED ABOVE. APPROVED TEST PROCEDURES WERE FOLLOWED TO PRODUCE THE ABOVE DATA.

Checked By HL Benn

Date 3-13-90

Jumpie	·	0-126		Pag	e <u> </u>	<del></del>	
`	_	Tested By R.G	. Alexander	Date 3-/3	-90		
		Procedure ETA	<i>∟−07</i> <sub>Rev</sub> / Da	te Issued			1
<u>EQUIPMENT ITEM</u> Hydrometer		NO. DI	IBRATION JE DATE				
		<u>Hydrometer</u>		1000 Z			
		Balance		3304 3- 0002 2			
	ļ	Inermomete	r/Inermocouple				
Specific	c gravity of	f Sample	2.70	LIVEROSCÓDIO	MOISTLINE C	ONTENT	
% Passi	ng No. 10 S	ieve	73.2 (%)	HYGROSCOPIC		4	
		ection Factor	4	Wt. Container + Air D	·		_
, 9		_		Wt. Container + Over			-
	. <u>w</u>	EIGHT OF SAM	PLE	Wt. Container	NA	(g	9)
Wt. Cor	ntainer + S	oil	<i>────</i> (g)	Water Content	NA	(9	%)
Wt. Cor	ntainer		<i>NA</i> (g)	_	55 4 4 D W 5		
Wt. Soil	I		80.06 (g)	_	REMARKS		
				Tube Y		<del></del>	
		IPOSITE CORRE			<del></del>	<del></del>	<del></del>
1st Rea	ding	<u> </u>	<u>23.7_</u> °c	W = 169.37			
2nd Re	ading	NA at	<u>°</u> c				
							:
		•					<del></del>
Date	Clock time	Elapsed time (min)	Hydrometer reading	Hydrometer with composite correction	Temp. (°C) 3-/3-90	Soil in suspension (%)	Particle diamete (mm)
	0740	2.0	16	11	23.8 HB	10.0.	0.034
13-90	0743	5.0	12	7	23.7	6,3.	0.02
13-90		15.0	10	5	23.7	4.5.	0.013
13-90	6753	13.0				<del>                                     </del>	<del> </del>
13-90	67 <i>5</i> 3	30.0	9	4	23.6	3.6.	10,009
-13-90				4	23.6 23.2	3.6	1
13-90	0808	30.0	9	<del></del>		<del> </del>	0.007
3-14-90	0808	30.0	9	4	23.2	3.6	0.009

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Checked By R.G. Alexandr Date 3-16-90

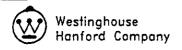
W	Westinghouse Hanford Company
	<b>Hanford Company</b>

## **SAMPLE ANALYSIS REQUEST**

Training Company			
		PART I: FIELD S	
Collector 14	Lindberg & Steve C	lark	Date Sampled $3-9-90$ Time $10:00Am$
Company Con	tact JWLindberg		Telephone ( 509 ) 376 -50 05
		·	<del></del>
Sample Number	Number and Type of Sample Containers	Type of Sample*	Analysis Requested
HRL-H-Z	1 plastic bag set	Soil	ASTM-D-422 Grain Size Analysis
HRL-D-4	11	1/	"
HRL-C-1	(1	11	"
HRL-M-4	1/	11	11
HRL-R-7	1/	11	1/
4RL-T-6-AH	-172 11	11	//
1100-3-6-5	11	//	//
1100-3-F-8		1/	11
1/00-3-4-5	11	u u	"
1100-3-14-8	ll .	ıı.	1/
1100-2-D-3	u/	1/	11
1100-2-F-4	11	u	1/
1100-2-H-1	1/	11	· · ·
1100-2-44-	11	[1	(1
Field Informat	tion** Run hydromete	er on all s	amples listed hereon
			·
		·_ ·	·
Special Handli	ing and/or Storage <i>NA</i>		
		PART II: LABORATO	DRY SECTION
Received by _		Title	Date
Analysis Requi	ired		

<sup>\*</sup>Indicate whether sample is soil, sludge, water, etc.

\*\*Use back of page for additional information relative to sample location.



#### CHAIN OF CUSTODY

Company Contact: JwLindbe	ra	Telephone 6	-5005
Sample Collected by: JwLind	perg Do	ate: <u>3-9-90</u>	Time: 10:35-//:/5/h/
Sample Locations: 1100-3	t		· · · · · · · · · · · · · · · · · · ·
Ice Chest No.: NA		jbook & Page Nó.;j	WHC-N-306, p.68
Remarks: ETT-5.2 a	with Steel sp	ade	:
Bill of Lading No.: NA	Off Site	Property No.:	14
Method of Shipment: Hand Ca	rry		
Shipped to: Jerry Alexand	er 2101-m Bldg	Soil Testin	ig Lab
1100-3-E-5 Soil Sample	Sample Identification Plas	on Lic Bags sealer	with duct tape
1100-3-F-8 Surface Soil S	sample !!	17 11	11 // 11
1100-3-A-5 Surface Soil		<u> </u>	
		,	
CHAIN OF POSSESSION	Descined by		Data /Times
Relinquished by: The Lindberg UNLindberg	Received by: R.G. Alycan L	- RG. Alexanor	Date/Time: EK <u>3-9-90 //3</u> co
Relinquished by:	Received by:		Date/Time:
Relinquished by:	Received by:	The second secon	Date/Time:
Relinquished by:	Received by:	***************************************	Date/Time:
			FVR\071889~B

CONDITIONAL RADIATION RELEASE	CONDITIONAL RADIATION RELEASE
Instructions: Sample # HRL-H-2	Instructions:
outside surfaces at	outside surfaces of
Alastic bas +60B-Y/LD	slastic boa - LDB, X/LD
Rivert   Amen	Direct & Amer
- may process	7
2 6-60 1 241	7-0-9h - 1.M.
Date: 3-9-90 By: 1 M ( Radiation Monitoring	Date: 3-9-90 By: N. M. Radiation Monitoring
BL-6700-133 (10-77)	BL-6700-133 (10-77)
CONDITIONAL RADIATION RELEASE	CONDITIONAL RADIATION RELEASE
Instructions: Sample # HRL-C-/	Instructions: Sample # HRL-M-4
autaide surfaces of plastic	outside surfaces of plastic
baa - 2D B- 4/2Dd	bag - LDB-X/LDL
Direct Amear	smean & Direct
and the second	
Date: 3-9-90 By: 1. M.	Date: 3-9-90 By: 1.M.
Date: 2 / By: Radiation Monitoring	Radiation Monitoring
BL-6700-133 (10-77)	BL-6700-133 (10-77)
CONDITIONAL RADIATION RELEASE	CONDITIONAL RADIATION RELEASE
Instructions: SAMPLO # HRL-R-7	Instructions: Sample # H KL-T-6-AH-12
outside surfaces of	outside surfaces of
- plastic bas - LD B-XKD	- plastic bag - 20 Bil/20
Direct / Ameas	Direct g smear 12
· Date: 3-9-90 By: A.M.	Date: 3990 By: 1, M.
Radiation Monitoring	Radiation Monitoring BL-6700-133 (10-77)
BL-6700-133 (10-77)	CONDITIONAL RADIATION RELEASE
CONDITIONAL RADIATION RELEASE	Instructions: 5AMBLO # 1100-3-1-8
Instructions: Sample #1100-3-E-5	Instructions: $3AMOOO = 1700 - 3 - 7 - 8$
outside ourfaces of	- autside surfaces of
plastic bag + LDB, 8/4D	- plastic bag + LDB, 8/LDL
Direct & Amean	smear & Direct
•	
Date: 3-9-90 By: 1.21.	Date: 1. 21. By: 3-9-90
Radiation Monitoring BL-6700-133 (10-77)	Radiation Monitoring BL-6700-133 (10-77)
	CONDITIONAL RADIATION RELEASE
CONDITIONAL RADIATION RELEASE	Instructions: Sample # 1100 - 3-4-8
Instructions: <u>SAMPLE</u> # 1100-3-H-	sutaida quelaca e Mate
5 - outside surfaces	has - 10 1- VIIV 1
of plastic - 206,8/201	Dine I non
covering & next / smear	- when when
	2 6 40 1 M
Date: 3-9-90 By: S. P. Mityel	Date: 3-9-90 By: A. M- Radiation Monitoring
Radiation Monitoring BL-6700-133 (10-77)	BL-6700-133 (10-77)